

0570  
0626

415



OIEP

## RAW SEQUENCE LISTING

DATE: 07/02/2002

PATENT APPLICATION: US/10/054,712

TIME: 13:53:04

Input Set : N:\Crf3\RULE60\10054712.raw

Output Set: N:\CRF3\07022002\J054712.raw

## SEQUENCE LISTING

## 3 (1) GENERAL INFORMATION:

(i) APPLICANT: Gerald R. Crabtree  
Schreiber, Stuart L.  
Spencer, David M.  
Wandless, Thomas J.  
Belshaw, Peter

ENTERED

11 (ii) TITLE OF INVENTION: Regulated Apoptosis

13 (iii) NUMBER OF SEQUENCES: 81

15 (iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: ARIAD Pharmaceuticals, Inc.  
(B) STREET: 26 Landsdowne Street  
(C) CITY: Cambridge  
(D) STATE: Massachusetts  
(E) COUNTRY: USA  
(F) ZIP: 02139

23 (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC/DOS/MS/DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

29 (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US/10/054,712  
(B) FILING DATE: 13-Nov-2001  
(C) CLASSIFICATION:

34 (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US/09/302,629  
(B) FILING DATE:  
(A) APPLICATION NUMBER: 09/087,811  
(B) FILING DATE:

42 (viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Figg, E. Anthony  
(B) REGISTRATION NUMBER: 27,195  
(C) REFERENCE/DOCKET NUMBER: 2054-108A

47 (ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (202) 783-6040  
(B) TELEFAX: (202) 783-6031

52 (2) INFORMATION FOR SEQ ID NO: 1:

54 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 14 amino acids  
(B) TYPE: amino acid  
(D) TOPOLOGY: linear

59 (ii) MOLECULE TYPE: peptide

## RAW SEQUENCE LISTING

DATE: 07/02/2002

PATENT APPLICATION: US/10/054,712

TIME: 13:53:04

Input Set : N:\Crf3\RULE60\10054712.raw

Output Set: N:\CRF3\07022002\J054712.raw

```

63      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
65      Met Gly Ser Ser Lys Ser Lys Pro Lys Asp Pro Ser Gln Arg
66      1          5          10
69 (2) INFORMATION FOR SEQ ID NO: 2:
71      (i) SEQUENCE CHARACTERISTICS:
72          (A) LENGTH: 11 base pairs
73          (B) TYPE: nucleic acid
74          (C) STRANDEDNESS: single
75          (D) TOPOLOGY: linear
77      (ii) MOLECULE TYPE: cDNA
81      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
83      GTTAAGTTAA C
85 (2) INFORMATION FOR SEQ ID NO: 3:
87      (i) SEQUENCE CHARACTERISTICS:
88          (A) LENGTH: 11 base pairs
89          (B) TYPE: nucleic acid
90          (C) STRANDEDNESS: single
91          (D) TOPOLOGY: linear
93      (ii) MOLECULE TYPE: cDNA
97      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
99      TGACTCAGCG C
101 (2) INFORMATION FOR SEQ ID NO: 4:
103      (i) SEQUENCE CHARACTERISTICS:
104          (A) LENGTH: 33 base pairs
105          (B) TYPE: nucleic acid
106          (C) STRANDEDNESS: single
107          (D) TOPOLOGY: linear
109      (ii) MOLECULE TYPE: cDNA
112      (ix) FEATURE:
113          (A) NAME/KEY: misc_feature
114          (B) LOCATION: 6..11
115          (D) OTHER INFORMATION: /note= "Sac II restriction site."
117      (ix) FEATURE:
118          (A) NAME/KEY: misc_signal
119          (B) LOCATION: 12..16
120          (D) OTHER INFORMATION: /note= "Kozak sequence."
122      (ix) FEATURE:
123          (A) NAME/KEY: CDS
124          (B) LOCATION: 17..31
126      (ix) FEATURE:
127          (A) NAME/KEY: misc_feature
128          (B) LOCATION: 17..33
129          (D) OTHER INFORMATION: /note= "Region of homology with
130 target sequence."
134      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
136      CGACACCGCG GCCACC ATG GCC ACA ATT GGA GC
137      Met Ala Thr Ile Gly
138      1          5
141 (2) INFORMATION FOR SEQ ID NO: 5:

```

## RAW SEQUENCE LISTING

DATE: 07/02/2002

PATENT APPLICATION: US/10/054,712

TIME: 13:53:04

Input Set : N:\Crf3\RULE60\10054712.raw

Output Set: N:\CRF3\07022002\J054712.raw

```

143      (i) SEQUENCE CHARACTERISTICS:
144          (A) LENGTH: 5 amino acids
145          (B) TYPE: amino acid
146          (D) TOPOLOGY: linear
148      (ii) MOLECULE TYPE: protein
150      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
152          Met Ala Thr Ile Gly
153              1           5
155 (2) INFORMATION FOR SEQ ID NO: 6:
157      (i) SEQUENCE CHARACTERISTICS:
158          (A) LENGTH: 27 base pairs
159          (B) TYPE: nucleic acid
160          (C) STRANDEDNESS: single
161          (D) TOPOLOGY: linear
163      (ii) MOLECULE TYPE: cDNA
166      (ix) FEATURE:
167          (A) NAME/KEY: misc_feature
168          (B) LOCATION: 6..11
169          (D) OTHER INFORMATION: /note= "Xho I restriction site."
171      (ix) FEATURE:
172          (A) NAME/KEY: misc_feature
173          (B) LOCATION: 12..27
174          (D) OTHER INFORMATION: /note= "Region of homology with
175 target sequence."
178      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
180          CGACACTCGA GAGCCCATGA CTTCTGG
182 (2) INFORMATION FOR SEQ ID NO: 7:
184      (i) SEQUENCE CHARACTERISTICS:
185          (A) LENGTH: 4 amino acids
186          (B) TYPE: amino acid
187          (C) STRANDEDNESS: single
188          (D) TOPOLOGY: linear
190      (ii) MOLECULE TYPE: peptide
193      (ix) FEATURE:
194          (A) NAME/KEY: Peptide
195          (B) LOCATION: 1..4
196          (D) OTHER INFORMATION: /note= "Translation product of
197 complement of SEQ ID NO:6, bases 9 to 20."
201      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
203          Ser Trp Ala Leu
204              1
206 (2) INFORMATION FOR SEQ ID NO: 8:
208      (i) SEQUENCE CHARACTERISTICS:
209          (A) LENGTH: 41 base pairs
210          (B) TYPE: nucleic acid
211          (C) STRANDEDNESS: single
212          (D) TOPOLOGY: linear
214      (ii) MOLECULE TYPE: cDNA
217      (ix) FEATURE:

```

27

## RAW SEQUENCE LISTING

DATE: 07/02/2002

PATENT APPLICATION: US/10/054,712

TIME: 13:53:04

Input Set : N:\Crif3\RULE60\10054712.raw

Output Set: N:\CRF3\07022002\J054712.raw

```

218      (A) NAME/KEY: misc_feature
219      (B) LOCATION: 6..11
220      (D) OTHER INFORMATION: /note= "Xho I restriction site."
222      (ix) FEATURE:
223          (A) NAME/KEY: misc_feature
224          (B) LOCATION: 12..41
225          (D) OTHER INFORMATION: /note= "Region of homology with
226 target sequence."
228      (ix) FEATURE:
229          (A) NAME/KEY: CDS
230          (B) LOCATION: 9..41
232      (ix) FEATURE:
233          (A) NAME/KEY: misc_feature
234          (B) LOCATION: 28
235          (D) OTHER INFORMATION: /note= "A to G."
238      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
240      CGACACTC GAG CTC TGC TAC TTG CTA GGT GGA ATC CTC TTC      41
241          Glu Leu Cys Tyr Leu Leu Gly Gly Ile Leu Phe
242              1              5              10
245      (2) INFORMATION FOR SEQ ID NO: 9:
247          (i) SEQUENCE CHARACTERISTICS:
248              (A) LENGTH: 11 amino acids
249              (B) TYPE: amino acid
250              (D) TOPOLOGY: linear
252          (ii) MOLECULE TYPE: protein
254          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
256              Glu Leu Cys Tyr Leu Leu Gly Gly Ile Leu Phe
257                  1              5              10
259      (2) INFORMATION FOR SEQ ID NO: 10:
261          (i) SEQUENCE CHARACTERISTICS:
262              (A) LENGTH: 24 base pairs
263              (B) TYPE: nucleic acid
264              (C) STRANDEDNESS: single
W--> 267          (D) TOPOLOGY: /note= "Translational stop encoded
268              in complementary strand."
269          (ii) MOLECULE TYPE: cDNA
270          (ix) FEATURE:
271              (A) NAME/KEY: misc_feature
272              (B) LOCATION: 3..8
273              (D) OTHER INFORMATION: /note= "Eco RI restriction site."
274          (ix) FEATURE:
275              (A) NAME/KEY: misc_feature
276              (B) LOCATION: 9..24
277              (D) OTHER INFORMATION: /note= "Region of homology with
278 target sequence."
280          (ix) FEATURE:
281              (A) NAME/KEY: misc_feature
282              (B) LOCATION: 24
283              (D) OTHER INFORMATION: /note= "G to C."

```

## RAW SEQUENCE LISTING

DATE: 07/02/2002

PATENT APPLICATION: US/10/054,712

TIME: 13:53:04

Input Set : N:\Crf3\RULE60\10054712.raw

Output Set: N:\CRF3\07022002\J054712.raw

```

285      (ix) FEATURE:
286          (A) NAME/KEY: misc_signal
287          (B) LOCATION: complement (9..11)
292      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
294      GCGAATTCTT AGCGAGGGGC CAGC
296 (2) INFORMATION FOR SEQ ID NO: 11:
298      (i) SEQUENCE CHARACTERISTICS:
299          (A) LENGTH: 4 amino acids
300          (B) TYPE: amino acid
301          (C) STRANDEDNESS: single
302          (D) TOPOLOGY: linear
304      (ii) MOLECULE TYPE: peptide
307      (ix) FEATURE:
308          (A) NAME/KEY: Peptide
309          (B) LOCATION: 1..4
310          (D) OTHER INFORMATION: /note= "Translational product of
311 complement to SEQ ID NO:10, bases 12 to 23."
314      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
316      Leu Ala Pro Arg
317      1
319 (2) INFORMATION FOR SEQ ID NO: 12:
321      (i) SEQUENCE CHARACTERISTICS:
322          (A) LENGTH: 33 base pairs
323          (B) TYPE: nucleic acid
324          (C) STRANDEDNESS: single
W--> 343          (D) TOPOLOGY: /note= "Translational stop signal
344                      encoded on complementary strand."
327      (ii) MOLECULE TYPE: cDNA
330      (ix) FEATURE:
331          (A) NAME/KEY: misc_feature
332          (B) LOCATION: 3..8
333          (D) OTHER INFORMATION: /note= "Eco RI restriction."
335      (ix) FEATURE:
336          (A) NAME/KEY: misc_feature
337          (B) LOCATION: 12..17
338          (D) OTHER INFORMATION: /note= "Sal I restriction site."
340      (ix) FEATURE:
341          (A) NAME/KEY: misc_signal
342          (B) LOCATION: complement (9..11)
353      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
355      GCGAATTCTT AGTCGACGCG AGGGGCCAGG GTC
357 (2) INFORMATION FOR SEQ ID NO: 13:
359      (i) SEQUENCE CHARACTERISTICS:
360          (A) LENGTH: 4 amino acids
361          (B) TYPE: amino acid
362          (C) STRANDEDNESS: single
363          (D) TOPOLOGY: linear
365      (ii) MOLECULE TYPE: peptide
368      (ix) FEATURE:

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/054,712

DATE: 07/02/2002  
TIME: 13:53:05

Input Set : N:\Crf3\RULE60\10054712.raw  
Output Set: N:\CRF3\07022002\J054712.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:69; N Pos. 12,13,14,15,16,17,18,19,20  
Seq#:70; Xaa Pos.3,4,5  
Seq#:71; N Pos.. 41,42,43,44,45,46,47,48,49  
Seq#:72; Xaa Pos.13,14,15  
Seq#:73; N Pos. 37,38,39,40,41,42,43,44,45  
Seq#:74; Xaa Pos.9,10,11

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/054,712

DATE: 07/02/2002

TIME: 13:53:05

Input Set : N:\Crf3\RULE60\10054712.raw

Output Set: N:\CRF3\07022002\J054712.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:288 M:220 C: Keyword misspelled or invalid format, [(D) TOPOLOGY:]  
L:288 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=10  
L:343 M:220 C: Keyword misspelled or invalid format, [(D) TOPOLOGY:]  
L:343 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=12  
L:1691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0  
L:1723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:0  
L:1755 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0